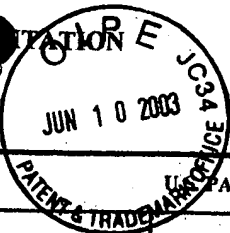


INFORMATION DISCLOSURE
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Pocket Number (Optional) 02560028A	Application Number 09/628,506
Applicant(s) T. Rappaport et al.	
Filing Date 7/28/00	Group Art Unit

PATENT DOCUMENTS							
EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
T.Z.	113	5,977,851	11-2-99	Stancil et al.	—	—	11-13-97
T.Z.	114	5,755,072	5-26-98	Lingafelter	—	—	5-13-98

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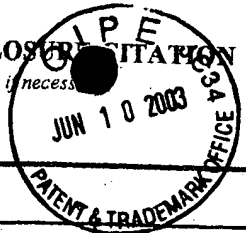
FOREIGN PATENT DOCUMENTS								
REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation		
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
T.Z.	From Bird's Eye Real-time Mapping Software dated 6-30-02
T.Z.	IEEE Transactions on Antennas and propagation, Vol. 46, No. 8, August 1998. "Effect of Terrain on Path Loss in Urban Environments for Wireless Applications" Leonard Piazzi and Henry L. Bertoni

EXAMINER <i>[Signature]</i>	DATE CONSIDERED <i>9/23/00</i>
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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02560028A-A

Application Number

09/628,506

Applicant(s)

T. Rappaport et al.

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7/28/00

Group Art Unit

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
T.Z.	1	4,675,147	6-23-87	Schaefer et al.	—	—	4-6-83
	2	4,736,453	4-5-88	Schloemer	—	—	12-10-85
	3	4,885,694	12-5-89	Pray et al.	—	—	4-29-87
	4	5,111,392	5-5-92	Malin	—	—	6-9-89
	5	5,119,307	6-2-92	Blaha et al.	—	—	12-22-89
	6	5,239,487	8-24-93	Horejsi et al.	—	—	10-24-90
	7	5,293,640	3-8-94	Gunmar et al.	—	—	
	8	5,307,261	4-26-94	Maki et al.	—	—	6-28-91
	9	5,337,149	8-9-94	Kozah et al.	—	—	11-12-92
	10	5,339,184	8-16-94	Tang	—	—	6-15-92
T.Z.	11	5,375,123	12-20-94	Andersson et al.	—	—	2-5-93

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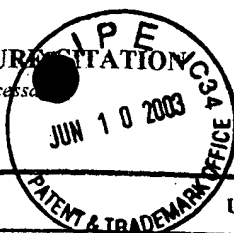
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EXAMINER <i>Tim J...</i>	DATE CONSIDERED <i>9/23/01</i>
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Applicant(s)

T. Rappaport et al.

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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
T.2	12	5,394,522	2-28-95	Sanchez-Frank et al.	—	—	9-13-93
	13	5,450,615	9-12-95	Fortune et al.	—	—	12-22-93
	14	5,458,123	10-17-95	Unger	—	—	4-29-94
	15	5,465,390	11-7-95	Cohen	—	—	2-12-93
	16	5,482,050	1-9-96	Smokoff et al.	—	—	2-17-94
	17	5,485,568	1-16-96	Venable et al.	—	—	10-8-93
	18	5,491,644	2-13-96	Pickering et al.	—	—	9-7-93
	19	5,491,837	2-13-96	Haartsen	—	—	3-7-94
	20	5,493,679	2-20-96	Virgil et al.	—	—	10-29-93
	21	5,515,269	5-7-96	Willis et al.	—	—	11-8-93
T.2	22	5,528,518	6-18-96	Bradshaw et al.	—	—	10-25-94

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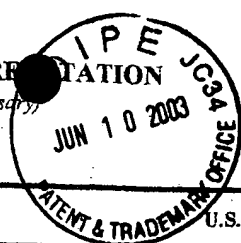
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EXAMINER	DATE CONSIDERED
<i>Tom Zher</i>	9/28/04

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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
T.Z.	23	5,539,665	7-23-96	Lamming et al.	—	—	7-25-94
	24	5,553,312	9-3-96	Gathey et al.	—	—	6-20-94
	25	5,553,620	9-10-96	Snider et al.	—	—	5-2-95
	26	5,555,354	9-10-96	Strasnick et al.	—	—	3-23-93
	27	5,561,841	10-1-96	Markus	—	—	
	28	5,564,070	10-8-96	Want et al.	—	—	7-30-93
	29	5,594,946	1-14-97	Menich et al.	—	—	2-28-95
	30	5,598,532	1-28-97	Liron	—	—	10-21-93
	31	5,625,827	4-29-97	Krause et al.	—	—	12-23-94
	32	5,636,344	6-3-97	Lewis	—	—	8-22-91
T.Z.	33	5,689,355	11-18-97	Okubo et al.	—	—	7-1-96

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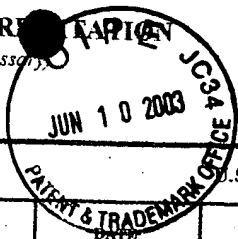
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T. Rappaport et al.

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EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
T.B.	34	5,761,093	6-2-98	Urbish et al.	—	—	5-8-97
	35	5,794,128	8-11-98	Brockel et al.	—	—	9-20-95
	36	5,799,154	8-25-98	Kuriyan	—	—	6-27-96
	37	5,809,282	8-15-98	Cooper et al	—	—	6-7-95
	38	5,815,395	9-29-98	Hart et al.	—	—	6-29-95
	39	5,828,960	10-27-98	Tang et al.	—	—	3-31-95
	40	5,831,610	11-3-98	Tonelli et al.	—	—	2-23-96
	41	5,832,389	11-3-98	Dent	—	—	4-3-96
	42	5,861,887	1-19-99	Butler et al.	—	—	12-5-95
	43	5,867,112	2-2-99	Kost	—	—	5-14-91
T.B.	44	5,877,777	3-2-99	Colwell	—	—	4-7-97

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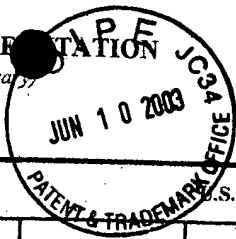
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EXAMINER T.B.	DATE CONSIDERED 9/23/00
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T. Rappaport et al.

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Group Art Unit

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
T.2.	45	5,878,328	3-2-99	Chawla et al.	—	—	12-21-95
	46	5,907,850	5-25-99	Krause et al.	—	—	1-21-97
	47	5,917,808	6-29-99	Kosbab	—	—	1-17-97
	48	5,923,850	7-13-99	Barroux	—	—	6-28-96
	49	5,926,762	7-20-99	Arpec et al.	—	—	5-17-96
	50	5,940,196	8-17-99	Piehler et al.	—	—	5-16-97
	51	5,945,976	8-31-99	Iwamura et al.	—	—	12-10-96
	52	5,948,055	9-7-99	Pulsipher et al.	—	—	8-29-96
	53	5,949,335	9-7-99	Maynard	—	—	4-14-98
	54	5,949,988	9-7-99	Feisullin et al.	—	—	4-3-97
T.2.	55	5,953,669	9-14-99	Stratis et al.	—	—	12-11-97

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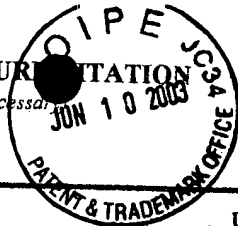
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T. Rappaport et al.

Filing Date

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Group Art Unit

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
T.E.	56	5,963,867	10-5-99	Reynolds et al.	—	—	8-16-95
	57	5,970,406	10-19-99	Komara	—	—	12-31-96
	58	5,987,328	11-16-99	Ephremides et al.	—	—	4-24-97
	59	6,006,021	12-21-99	Tognazzini	—	—	7-1-96
	60	6,018,625	1-25-00	Hayball et al.	—	—	8-27-97
	61	6,021,316	2-1-00	Heiska et al.	—	—	
	62	6,032,105	2-29-00	Lee et al.	—	—	7-31-97
	63	6,038,547	3-14-00	Casto	—	—	1-7-98
	64	6,044,273	3-28-00	Tekinay	—	—	12-10-96
	65	6,058,102	5-2-00	Drysdale et al	—	—	11-6-98
T.E.	66	6,058,262	5-2-00	Kawas et al.	—	—	4-18-97

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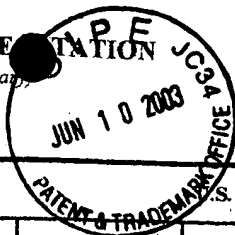
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EXAMINER <i>Ting</i>	DATE CONSIDERED <i>9/23/04</i>
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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
T.2.	67	6,059,842	5-9-00	Dumarot et al.	—	—	4-14-98
	68	6,061,722	5-9-00	Lipa et al.	—	—	12-23-96
	69	6,075,541	6-13-00	Maclinovsky	—	—	11-7-97
	70	6,088,522	7-11-00	Lee et al.	—	—	7-31-97
	71	6,104,699	8-15-00	Holender et al.	—	—	
	72	6,108,309	8-22-00	Cohoe et al.	—	—	12-8-97
	73	6,111,857	8-29-00	Soliman et al.	—	—	9-11-97
	74	6,122,083	9-19-00	Ohta et al.	—	—	10-3-94
	75	6,148,010	11-14-00	Sutton et al.	—	—	6-24-98
	76	6,199,032	3-6-01	Anderson	—	—	7-22-98
T.2.	77	6,204,813	3-20-01	Wadell et al.	—	—	2-20-98

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REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
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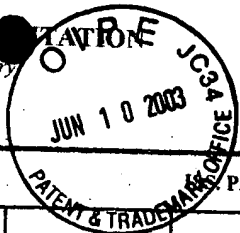
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PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
T.2.	78	6,208,833	3-27-01	Preschutti et al.	—	—	6-24-97
	79	6,229,540	5-8-01	Tonelli et al.	—	—	10-13-98
	80	6,253,086	6-26-01	Parantainen et al.	—	—	3-25-99
	81	6,285,377	9-4-01	Greenbaum et al.	—	—	6-26-97
	82	6,289,203	9-11-01	Smith et al.	—	—	2-25-98
	83	6,317,599	11-13-01	Rappaport et al.	—	—	5-26-99
	84	6,326,987	12-4-01	Alexander	—	—	12-19-00
	85	6,330,005	12-11-01	Tonelli et al.	—	—	10-6-99
	86	6,311,144	10-30-01	Abu El Ata	—	—	7-31-98
	87	6,337,688	1-8-02	Berstis	—	—	1-29-99
T.2.	88	6,338,031	1-8-02	Lee et al.	—	—	9-23-99

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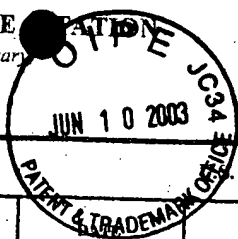
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T.R.	89	6,356,758	3-12-02 Almeida et al.			12-31-97
	90	6,393,432	5-21-02 Flansburg et al,			6-2-99
	91	6,408,312	6-18-02 Forthman et al.			8-30-99
	92	6,442,507	8-27-02 Skidmore et al.			12-29-98
	93	6,470,195	10-22-02 Meyer			10-31-00
	94	6,487,417	11-26-02 Rossoni et al.			11-24-99
	95	6,493,679	12-10-02 Rappaport et al.			5-26-99
	96	6,496,290	12-17-02 Lee			12-17-98
	97	6,499,006	12-24-02 Rappaport et al.			7-14-99
	98	6,505,045	1-7-03 Hills et al.			4-10-00
T.R.	99	5,586,254	12-17-96 Kondo			

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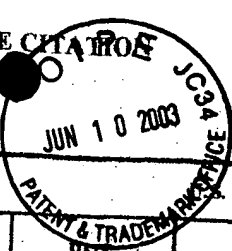
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*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
T2	100	6,085,335	7-4-00	Djoko et al.			12-31-97
	101	5,710,758	1-20-98	Soliman et al.			9-29-95
	102	5,821,937	10-13-98	Tonelli et al.			8-12-96
	103	5,774,669	6-30-98	George et al.			7-28-95
	104	5,802,146	9-1-98	Dulman			11-22-95
	105	5,825,759	10-20-98	Liu			7-24-95
	106	5,845,124	12-1-98	Berman			5-1-96
	109	6,199,032	3-6-01	Anderson			7-22-98
	110	5,467,441	11-14-95	Stone et al.			10-6-94
	111	6,243,772	6-5-01	Ghori et al.			1-31-97
T2	112	5,994,984	11-30-99	Stancil et al.			5-29-98

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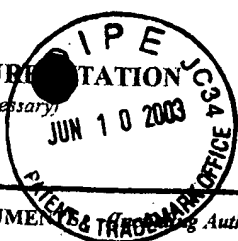
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EXAMINER: *Jim Zher* DATE CONSIDERED: *7/23/01*

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T.Z.

1 P. Bahl, V. Padmanabhan, and A. Balachandran, "A Software System for Locating Mobile Users: Design, Evaluation, and Lessons," Microsoft Technical Report, April 2000

2 G. Durgin, T.S. Rappaport, H. Xu, Measurements and Models for Radio Path Loss and Penetration Loss in and Around Homes and Trees at 5.85 GHz," IEEE Transactions on Communications, vol. 46, no. 11, November 1998.

3 C.M. Peter Ho et al., "Antenna Effects on Indoor Obstructed Wireless Channels and a Deterministic Image-Based Wide-Band Propagation Model for In-Building Personal Communications Systems," International Journal of Wireless Information Networks, Vol. 1, No. 1, 1994.

4 S. Kim et al., "Radio Propagation Measurements and Predictions Using Three-dimensional Ray Tracing in Urban Environments at 908 MHz and 1.9 GHz," IEEE Transactions on Vehicular Technology, vol. 48, no. 3, May 1999

5 T.S. Rappaport et al., "Use of Topographic Maps with Building Information to Determine Antenna Placements and GPS Satellite Coverage for Radio Detection and Tracking in Urban Environments," MPRG Technical Report MPRG-TR-95-14, Virginia Tech, September 1995

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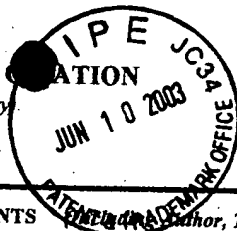
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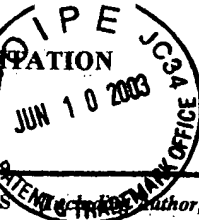
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